

**ABSTRACT**

A transmitter transmits an alternating magnetic field to a receiver implanted in a human's body to supply energy drawn from the alternating magnetic field to an energy consuming implant in the human's body. The transmitter comprises a coil adapted to generate the alternating magnetic field in a desired direction towards the implanted receiver. A shield shields an operator's hand from the alternating magnetic field generated by the coil. The shield includes a magnetizable core extending in the coil and a magnetizable casing integrated with the core and surrounding the rear end of the coil and the circumference of the coil along at least a portion of the longitudinal extension of the coil.